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Application Number

08/920 600

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8-28-97

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13

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United States Patent Number 6652 709, column \_\_\_\_\_, line \_\_\_\_\_, or

WIPO Pub. No. \_\_\_\_\_, page \_\_\_\_\_, line \_\_\_\_\_

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(12) **United States Patent**  
**Green**

(10) **Patent No.:** **US 6,652,704 B2**  
(45) **Date of Patent:** **Nov. 25, 2003**

(54) **AEROSOL CEMENT AND VALVE FOR DISPENSING SAME**

(76) **Inventor:** **Ronald D. Green, 13595 Cable Rd., Pataskala, OH (US) 43062**

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** **09/905,373**

(22) **Filed:** **Jul. 16, 2001**

(65) **Prior Publication Data**

US 2001/0047848 A1 Dec. 6, 2001

**Related U.S. Application Data**

(63) Continuation-in-part of application No. 09/347,787, filed on Jul. 6, 1999, now abandoned, which is a continuation-in-part of application No. 08/920,600, filed on Aug. 28, 1997, now abandoned.

(51) **Int. Cl.<sup>7</sup>** ..... **B23B 31/00**

(52) **U.S. Cl.** ..... **156/308.6; 156/304.2; 220/203.19; 222/412.24; 222/635; 285/285.1; 285/288.3; 285/290.1; 524/378**

(58) **Field of Search** ..... **156/304.2, 308.6; 524/378; 285/285.1, 288.3, 290.1; 516/1, 8; 220/203.19; 222/635, 402.24**

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\* cited by examiner

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(57) **ABSTRACT**

An aerosol solvent weld cement composition for joining ends of plastic pipe. The composition contains at least one polymer capable of welding the plastic pipes to each other, at least one solvent for the polymer, and at least one propellant for the polymer/solvent solution. The composition is maintained under pressure greater than atmospheric pressure in an aerosol container. A female omnidirectional valve is disclosed for use in the aerosol container. This valve comprises a valve body having an omnidirectional attachment which contains a check valve container made up of a constricted lower end, a top surface, a lateral opening, and a check ball for opening and closing passageways. This valve allows the solvent weld cement composition to be applied to pipes from any angle.

**2 Claims, 3 Drawing Sheets**

